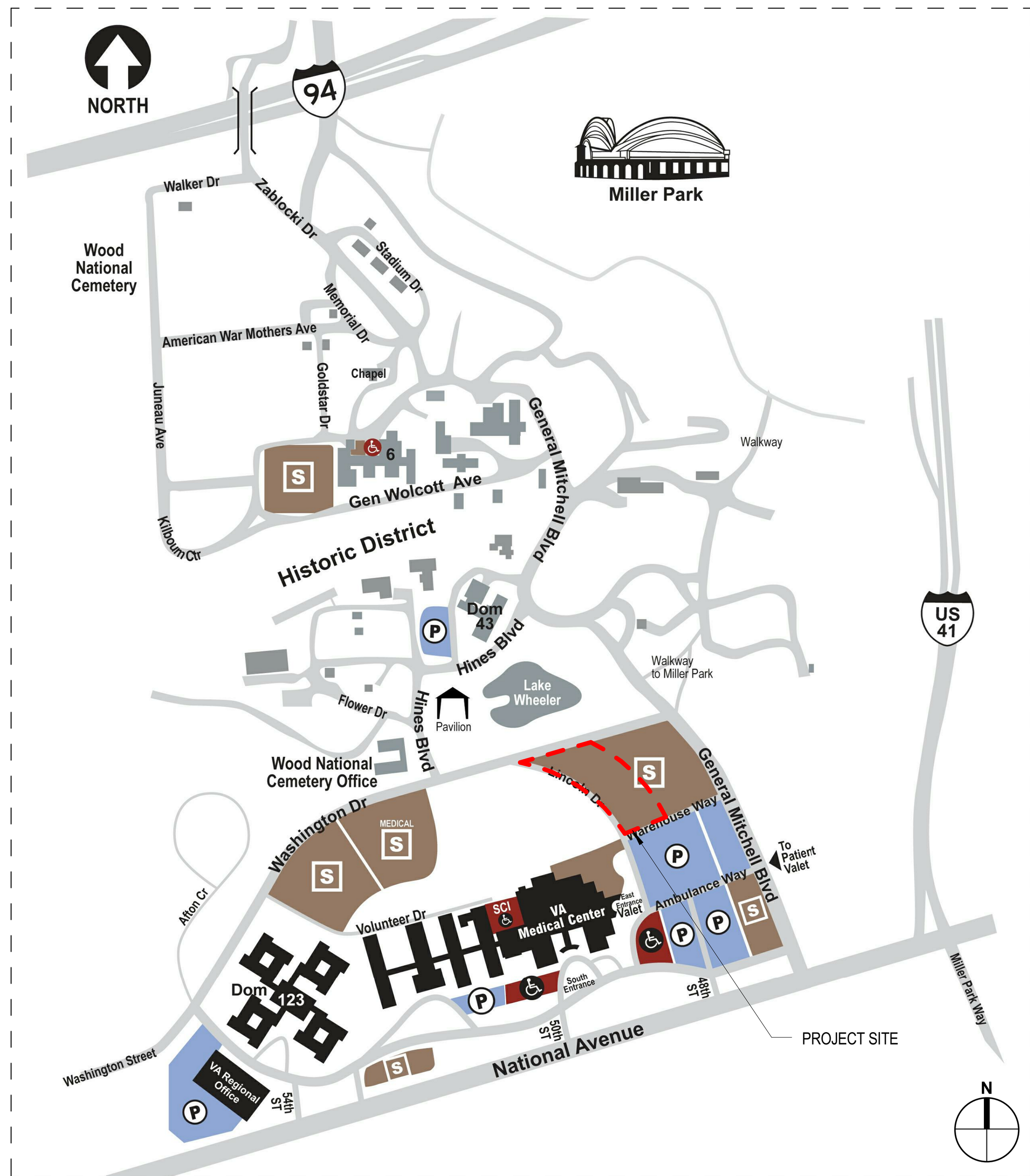
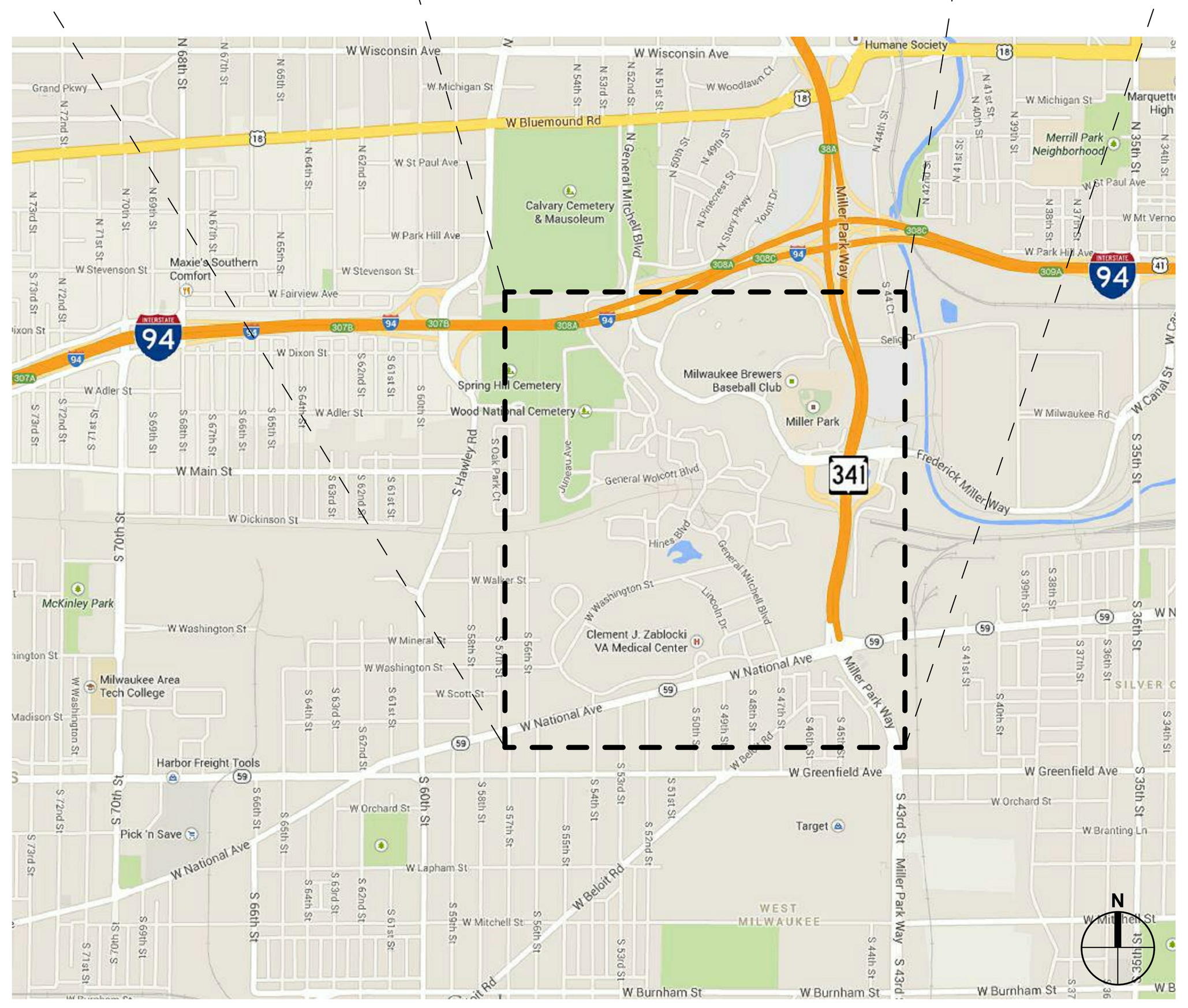
CLEMENT J. ZABLOCK VA MEDICAL CENTER

PARKING STRUCTURE LOT 7

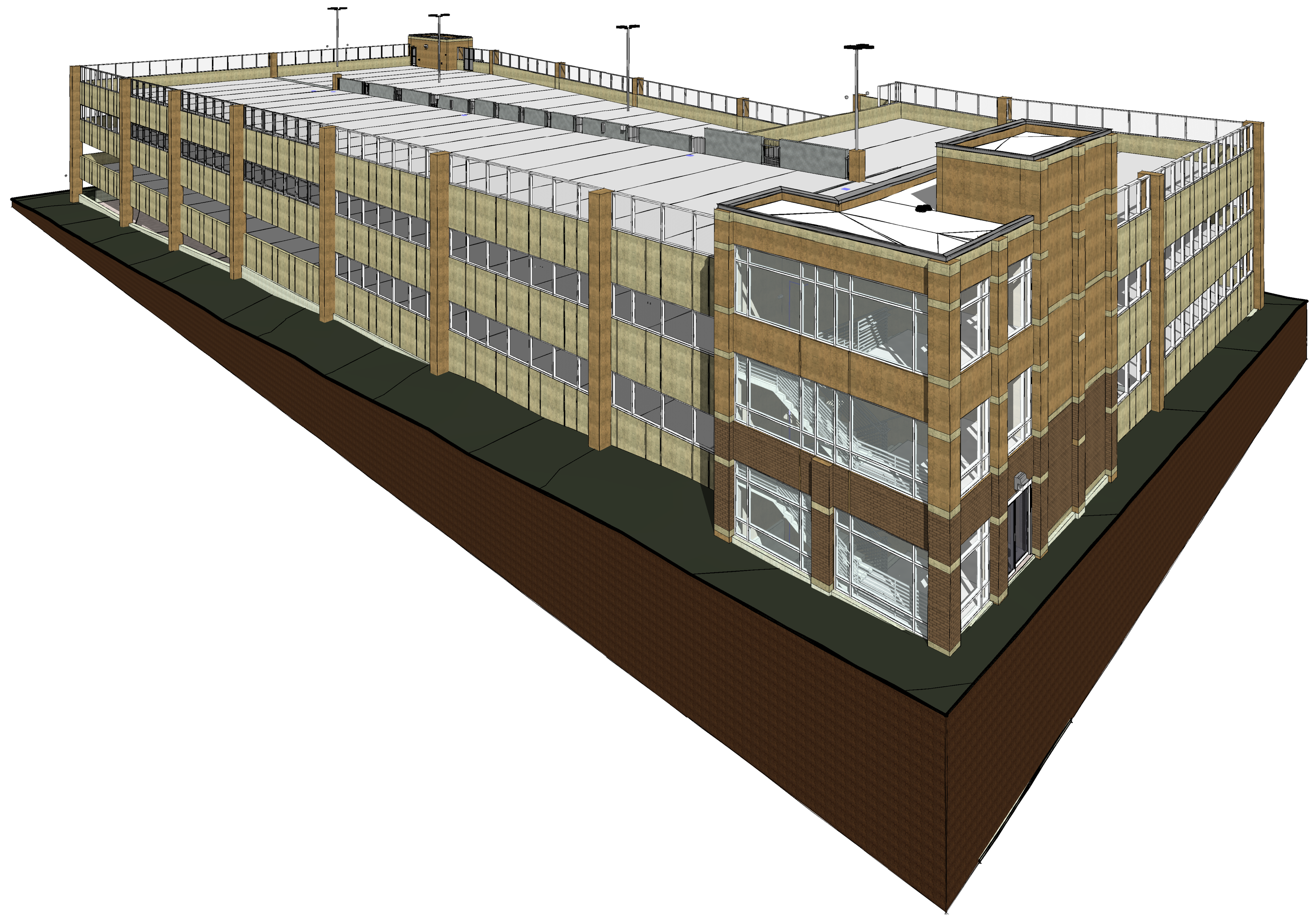
BID SET



LOCATION MAP



LOCATION MAP



SHEET LIST

SHEET NUMBER	SHEET NAME
GENERAL	
GI000	COVER SHEET
GI101	CODE ANALYSIS
GI102	LIFE SAFETY PLAN
GI103	BID ALTERNATES
GI104	BID ALTERNATES
CIVIL	
VF101	TOPOGRAPHIC SURVEY
CC001	GENERAL CIVIL NOTES
CC002	SITE PHASING PLAN
CD101	DEMOLITION PLAN
CD102	DEMOLITION PLAN
CS101	SITE PLAN
CS102	SITE PLAN
CS501	SITE DETAILS
CS502	SITE DETAILS
CG101	GRADING PLAN
CG102	GRADING PLAN
CU101	UTILITY PLAN
CU102	UTILITY PLAN
CU501	UTILITY DETAILS
CJ101	EROSION CONTROL AND PLANTING PLAN
CJ102	EROSION CONTROL AND PLANTING PLAN
CJ501	EROSION CONTROL DETAILS
STRUCTURAL	
SI001	ABBREVIATIONS AND SYMBOLS
SI002	LOAD MAPS
SI003	STRUCTURAL GENERAL NOTES
SB101	FOUNATION PLAN
SB401	ENLARGED PARTIAL FOUNDATION PLANS
SB402	ENLARGED SHEARWALL PILE CAP PLANS
SB501	TYPICAL FOUNDATION DETAILS
SB502	FOUNDATION SECTIONS AND DETAILS
SB503	FOUNDATION SECTIONS AND DETAILS
SB601	PILE/PILE CAP SCHEDULE, SECTIONS AND DETAILS
SB611	GRADE BEAM, WALL FOOTING, CONCRETE WALL AND MASONRY WALL SCHEDULES AND DETAILS
SF101	SLAB-ON-GRADE
SF102	LEVEL 1 - FRAMING PLAN
SF103	LEVEL 2 - FRAMING PLAN
SF104	LEVEL 3 - FRAMING PLAN
SF201	CAST IN PLACE WALL ELEVATIONS
SF202	SHEARWALL ELEVATIONS AND SCHEDULES
SF301	BUILDING SECTIONS
SF401	STAIR #1 ENLARGED FRAMING AND ROOF PLANS
SF402	STAIR #2 ENLARGED FRAMING AND ROOF PLANS
SF411	PRECAST WALL ELEVATIONS
SF501	TYPICAL PRECAST SECTIONS AND DETAILS
SF502	FRAMING SECTIONS AND DETAILS
SF503	FRAMING SECTIONS AND DETAILS
SF901	ISOMETRICS
ARCHITECTURAL	
AS001	ABBREVIATIONS AND SYMBOLS - SIGNAGE
AS101	LOWER LEVEL - FLOOR PLAN
AS102	LEVEL 1 - FLOOR PLAN
AS103	LEVEL 2 - FLOOR PLAN
AS104	LEVEL 3 - FLOOR PLAN
AS251	ROOF PLANS
AS301	BUILDING ELEVATIONS
AS302	BUILDING ELEVATIONS
AS311	ENLARGED EXTERIOR ELEVATIONS
AS312	DOOR SCHEDULE AND STOREFRONT ELEVATIONS
AS411	WALL AND STAIR SECTIONS
AS412	WALL AND STAIR SECTIONS
AS421	RAILING ELEVATIONS AND DETAILS
AS501	ENLARGED STAIR PLANS
AS601	INTERIOR ELEVATIONS

SHEET LIST

SHEET NUMBER	SHEET NAME
FUNCTIONAL	
AP101	LOWER LEVEL PLAN - ARCHITECTURAL PARKING
AP102	LEVEL 1 PLAN - ARCHITECTURAL PARKING
AP103	LEVEL 2 PLAN - ARCHITECTURAL PARKING
AP104	LEVEL 3 PLAN - ARCHITECTURAL PARKING
AP401	ISLAND DETAILS - ARCHITECTURAL PARKING
AP501	STRIPING DETAILS - ARCHITECTURAL PARKING
AP601	SIGNAGE DETAILS - ARCHITECTURAL PARKING
AW101	LOWER LEVEL PLAN - WATERPROOFING
AW102	LEVEL 1 PLAN - WATERPROOFING
AW103	LEVEL 2 PLAN - WATERPROOFING
AW104	LEVEL 3 PLAN - WATERPROOFING
AW501	DETAILS - WATERPROOFING
PLUMBING	
PI001	PLUMBING NOTES, LEGEND, AND DETAILS
PP101	LL - PLUMBING PLAN
PP102	LEVEL 1 - PLUMBING PLAN
PP103	LEVEL 2 - PLUMBING PLAN
PP104	LEVEL 3 - PLUMBING PLAN
PP301	PLUMBING SECTIONS
PP901	PLUMBING RISERS
MECHANICAL	
MI001	MECHANICAL NOTES AND LEGEND
MH401	MECHANICAL PLANS AND SCHEDULES
ELECTRICAL	
EE001	ELECTRICAL NOTES, LEGENDS, AND LIGHT FIXTURE SCHEDULE
ED101	ELECTRICAL SITE DEMOLITION PLAN
ED102	ELECTRICAL SITE DEMOLITION PLAN
EE101	ELECTRICAL SITE PLAN
EE102	ELECTRICAL SITE PLAN
EE103	LEVEL LL ELECTRICAL PLAN
EE104	LEVEL 1 ELECTRICAL PLAN
EE105	LEVEL 2 ELECTRICAL PLAN
EE106	LEVEL 3 ELECTRICAL PLAN
EE401	ELECTRICAL ENLARGEMENTS
EE402	ELECTRICAL ENLARGEMENTS
EE403	ELECTRICAL ENLARGEMENTS
EE501	ELECTRICAL DETAILS
EE502	ELECTRICAL DETAILS AND LAN RISERS
EE601	SINGLE-LINE, PANEL SCHEDULES, EQUIPMENT CONDUCTOR SCHEDULE

PARKING SUMMARY

DESCRIPTION	8'-6"	9'-0"	ADA	ADA VAN	TOTAL	AREA (SF)
LEVEL 3	60	23	---	---	83	27,300
LEVEL 2	96	16	---	---	112	34,300
LEVEL 1	90	9	6	2	107	34,300
LOWER LEVEL	93	7	---	---	100	34,900
GARAGE TOTAL	339	55	6	2	402	129,800

PARKING EFFICIENCY = 322.9 SF/SPACE
STANDARD SPACE = 9'-0" X 18'-0" or 8'-6" X 18'-0"
ADA VAN = 8'-0" X 18'-0" w/8'-0" AISLE
ADA = 8'-0" X 18'-0" w/5'-0" AISLE

OWNER

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BID ALTERNATES

ALT	DESCRIPTION
1	DO NOT PROVIDE DESIGNATED FALL DETERRENT/SECURITY SCREENING AND CARD READERS AT ENTRANCES TO STAIRWELLS. REFER TO DRAWINGS ON GI103 FOR EXTENT OF FALL DETERRENT/SECURITY SCREENING TO BE REMOVED. DO NOT PROVIDE CARD READERS AT ENTRANCE TO STAIR TOWERS FOR DOORS LL05 AND 104.
2	DO NOT PROVIDE THE BRICK VENEER AT THE NORTHEAST STAIR TOWER AND THE SOUTHWEST STAIR TOWER. DO NOT PROVIDE THE ALUMINUM STOREFRONT WINDOW ENCLOSURE OF THE NORTHEAST STAIR TOWER. PROVIDE METAL GUARDRAILS AT WINDOW OPENINGS IN LIEU OF ALUMINUM STOREFRONT.
3	DO NOT PROVIDE FALL DETERRENT IN ITS ENTIRETY ON ALL LEVELS.
4	DO NOT PROVIDE AREA #1 - LEVEL 3. REFER TO DRAWINGS ON GI103 FOR EXTENT OF AREA DEDUCT.
5	DO NOT PROVIDE THE ALUMINUM STOREFRONT ENCLOSURE OF THE TOP FLOOR (LEVEL 3) LOBBY ENCLOSURE. DO NOT PROVIDE THE ALUMINUM STOREFRONT WINDOW ENCLOSURE OF THE SOUTHWEST STAIR TOWER. PROVIDE METAL GUARDRAILS AT WINDOW OPENINGS IN LIEU OF ALUMINUM STOREFRONT.
6	DO NOT PROVIDE AREA #2 - LEVEL 3. REFER TO DRAWINGS ON GI103 FOR EXTENT OF AREA DEDUCT.
7	DO NOT PROVIDE AREA #3 - LEVEL 3. REFER TO DRAWINGS ON GI104 FOR EXTENT OF AREA DEDUCT.
8	DO NOT PROVIDE AREA #4 - LEVEL 2. REFER TO DRAWINGS ON GI104 FOR EXTENT OF AREA DEDUCT. DO NOT PROVIDE SECOND ELEVATOR #2 AND ASSOCIATED EQUIPMENT.
9	DO NOT PROVIDE PTZ AND FIXED CAMERAS THROUGHOUT GARAGE. ALL INFRASTRUCTURE IS TO REMAIN IN BASE BID FOR FUTURE CONNECTIVITY.

DIRECTOR

ITP CHAIRMAN

CHEIF. FACILITIES MANAGEMENT

SAFETY OFFICER

NAGE

Revisions: | Date

VA | U.S. Department of Veterans Affairs

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BID SET

Drawing Title	Project Title	A/E Project Number	OFFICE OF FACILITIES MANAGEMENT
COVER SHEET	PARKING STRUCTURE - LOT 7	14.1020.02	
		Building Number: #152	
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location: CLEMENT J ZABLOCKI VAMC	Drawing Number	VA Project Number: 695-325
	Date: 1 DEC 2015 / Checked By: LL / Drawn By: EA	GI000	VA U.S. Department of Veterans Affairs

C:\Users\bthomas\Documents\14.1020.02-A-MVA-Garage_WJThomas.rvt

GOVERNING CODES:

ICC, International Building Code, 2015 edition (IBC)
NFPA 101, *Life Safety Code*, 2015 edition (LSC)
NFPA 10, Standard for Portable Fire Extinguishers, 2013 edition.
NFPA 13, Standard for the Installation of Sprinkler Systems, 2013 edition.
NFPA 14, Standard for the Installation of Standpipe and Hose System, 2013 edition.
NFPA 24, Standard for the Installation of Private Fire Service Mains and their Appurtenance, 2013 edition.
NFPA 72, *National Fire Alarm Code*, 2013 edition.
NFPA 70, *National Electric Code*, 2014 edition.
NFPA 80, Standard for Fire Doors and Other Opening Protectives, 2013 edition.
NFPA 88A, Standard for Parking Structures, 2015 edition.
NFPA 90A, Standard for the Installation of Air-Conditioning and Ventilating Systems, 2015 edition.
NFPA 220, Standard Types of Building Construction, 2015 edition.
NFPA 291, Recommended Practice for Fire Flow Testing and Marking of Hydrants, 2013 edition.
ASTM E2072-04, Specification for Photoluminescent (Phosphorescent) Safety Markings, 2004 edition.

International Plumbing Code
ASHRAE 90.1-2012
ASHRAE 62.1 – 2012
ANSI A117.1-2009 Standard on Accessible & Usable Buildings and Facilities
2010 ADA Standards for Accessible Design
ASCE-07-10
ACI 318-11
ACI 530-11
AISC 341-10
AISC 360-10
PCI MNL 120-10, Design Handbook

VA DESIGN MANUALS:

VA Parking Design Manual & Demand Model, April 2013
VA Barrier Free Design Guide
Architectural
Electrical
HVAC
Plumbing
Site and Landscape
Auto Transport
Interior Design
Structural
Sanitary
Fire Protection, Sixth Edition Revised September 2011
Facilities
Physical Security Design Manual: Life-Safety Protected

CODE ANALYSIS

A. OCCUPANCY CLASSIFICATION

1. The parking garage is classified as low-hazard storage facilities, a Group S-2 Occupancy, and as an ordinary hazard by NFPA 101 42.8.15
2. The parking garage is considered an **OPEN PARKING STRUCTURE** openings shall comply with the following:
   a. Open Parking Structure: A parking structure that meets the requirements of NFPA 88A Section 5.5
      i. Each parking level shall have wall openings to the atmosphere for an area of not less than 1.4 square feet for each linear foot of the exterior perimeter.
      ii. Opening shall be distributed over a minimum of 40% of the building perimeter or uniformly over two opposing sides.
      iii. Interior wall lines and columns shall be at least 20% open, with openings distributed to provide ventilation.
3. This parking garage is classified as a Ramp Type Parking Structure: A parking Structure that utilizes sloped ramps for vertical vehicle circulation per NFPA 88A 4.1.3

B. CONSTRUCTION CLASSIFICATION

1. The parking garage is to be constructed in accordance with the provisions of NFPA 88A as defined in NFPA 220. Construction type for a building exceeding 25 feet in height shall be Type 1, Type II(222) or Type II(111). An open parking garage of tehse construction types may be unlimited in height and area.
2. The Parking Garage has four levels above grade and is classified as an open parking structure. The construction classification is Type IIA based upon the occupancy and area of the building.
3. Primary structural elements of Type II(111) buildings will be 1-hour rated. Primary structural elements supporting a roof only will be 1-hour rated, and all floor construction will have a fire resistance rating of 1-hours.
4. Primary structural members are considered to be bearing walls, columns, and the girders, beams, trusses and spandrels having direct connections to columns and bracing members designed to carry gravity loads. The members of floor or roof panels which have no connection to the columns and do not carry a gravity load are considered secondary members and are not part of the structural frame of a building

C. FIRE RESISTANCE RATED SEPARATIONS

The Garages will be designed as nonseparated mixed uses. Incidental uses are not anticipated, so no fire rated separation is required between occupancies. Interior building elements that require fire resistance ratings are listed below:

BUILDING ELEMENT	FIRE RESISTANCE RATING	CODE REFERENCE
Non-enclosed Exit Stairs	0	NFPA 88A, 4.1.5
Enclosed Exit Stairs (NOT PROVIDED)	1,2	NFPA 101 7.1.3.2.1
Ramps	0	NFPA 101 42.8.3.1.2
Other shafts which connect 2 or more stories	2	NFPA 101 42.8.3.1.2
Elevator machine rooms	2	NFPA 101 7.14.7.1
Emergency generator (if provided)	2	NFPA 70

(1) Supporting structural members (located within one structural bay) must have the same fire resistance rating. The fire resistance rating must be carried through all structural members; extending to the foundation. In addition, the shaft construction must maintain the same fire rating as the floor construction (1 Hr rated).

(2) Where nonrated walls or unprotected openings enclose the exterior of the stairway and the walls or openings are exposed by other parts of the building at an angle of less than 180 degrees, the building exterior walls within 3.048 m (10 ft) horizontally of a nonrated wall or unprotected opening must have a fire resistance rating of not less than 1-hour. Openings within such exterior walls must be protected by opening protectives having a fire protection rating of not less than ¾-hour. This construction must extend vertically from the ground to a point 3.048 m (10 ft) above the top most landing of the stairway or to the roof line, whichever is lower.

1. Mechanical equipment rooms incidental to the use of the building are not required to be separated by an occupancy separation. Special hazard rooms such as general storage and furnace/boiler rooms and electrical switchgear rooms shall be separated per NFPA 70 and potentially IBC Table 508.2.
2. Cashier and attendant booths are not required to be separated. NFPA 88A 5.2.4.
3. The electrical, security and IT rooms do not have a total area exceedign 3,000 SF therefore shall be separated by partitions built to resist the passage of smoke. NFPA 88A 5.2.4.
4. Fire barriers will extend from the top of the floor below to the underside of the floor or roof deck above. The openings and penetrations in required exit enclosures will be protected with self-closing or automatic-closing opening protectives. Openings in fire resistance rated walls will be protected in accordance with the following:

COMPONENT	WALLS AND PARTITIONS (HR) NFPA 101 8.3.4.2	FIRE DOOR ASSEMBLIES (HR/MIN) NFPA 101 8.3.4.2
Elevator Hoistways	0 (NFPA 101 42.8.3.1.2)	0
Elevator Machine Rooms	2 (NFPA 7.14.7.1)	1.5(90)
Vertical Shafts (including enclosed exit stairways)	0 (NFPA 101 42.8.3.1.2)	0
Fire Barriers	1	.75(45)
	2	1.5(90)
	3	3(180)

Piping, conduit, and wire penetrations of fire rated construction will be protected by materials or systems of the same hourly rating listed by Underwriters Laboratories (UL), Factory Mutual (FM), or a National Recognized Testing Laboratory (NRTL). Duct, air transfer openings, and other penetrations through floors, shaft enclosures and other fire rated construction will be protected in accordance with the IBC.

D. BUILDING PLACEMENT

The code requires the exterior walls of buildings to be protected from one another based on the fire separation distance between buildings, or to a lot line. Fire separation distance is defined as the distance measured from the face of a building to one of the following three points:

1. The closest interior lot line;
2. To the centerline of a street, an alley or public way, or;
3. To an imaginary line between two buildings on the property.

No fire rated separation is required where the parking structure is separated by 10 feet. NFPA 88A 5.2.2

E. INTERIOR FINISH

Interior wall and ceiling finish to be designed in accordance with the NFPA 101, 42.8.3.3.3.

1. Class A, B and C finish is permitted for interior walls and ceilings in rooms, and corridors. Class A or B finish is permitted for exits.
2. Per the IBC Section 406.2.6 all floor surfaces shall be of concrete or other similar non-combustible and non-absorbent materials. Floor Finish shall not be less than Class II.

F. EGRESS LIGHTING AND EXIT SIGNAGE

Emergency egress lighting will be provided throughout the common portions of the means of egress in accordance with The Life Safety Code Code section 42.8.2.8, 42.8.2.9 and 42.8.2.10.

1. These areas include drive lanes, corridors, exit access spaces within areas requiring two (2) or more means of egress, the lobby/entrance areas, exit stairs, and the exit discharge areas (including exterior locations until the public way).
2. Each required exit will be identified with an exit sign, including exit access, and within areas requiring multiple exits. Directional exit signs will also be provided to direct occupants toward the closest exit so that no occupant is more than 100 feet from an exit sign.
3. The egress lighting and exit signs will be provided with a secondary source of power in the event that the primary power source is disrupted. The secondary power source will consist of either internal batteries or a connection to an emergency power system.

G. MEANS OF EGRESS

Means of egress shall be in compliance with NFPA 101 and as modified by NFPA 88A. Egress requirements are based upon a non-sprinklered building. Exits must be so located on each story such that the maximum length of exit access travel, measured from the most remote point within a story along the natural and unobstructed path of egress travel to an exterior exit door at the level of exit discharge, an entrance to a vertical exit enclosure, an exit passageway, a horizontal exit, an exterior exit stairway or an exterior exit ramp, may not exceed the distances allowed by the Code. Egress requirements are outlined below.

1. Maximum travel distance: open parking garage – 300 feet (NFPA 101 Table 42.8.2.6.1)
2. Common path of travel: 50 feet (NFPA 101 Table 42.8.2.5.1)
3. Dead ends: 50 feet (NFPA 101 Table 42.8.2.5.2)
4. Number of exits: At least two exits shall be provided from every floor/tier. In certain conditions ramps may be substituted for an egress stair. (NFPA 101 Table 42.8.2.4)
5. Egress Width Factor: NFPA 101 Table 7.3.3.1 requires a minimum egress width of 0.2 in per occupant for doors, ramps, and corridors and a minimum egress width of 0.3 in per occupant for stairs.
6. Occupant Load factor: NFPA 101 Table 7.3.1.2 requires an Occupant load factor of 500 s.f. per person be applied to storage use type facilities other than storage and mercantile occupancies. Parking garages are classified by chapter 42 of the NFPA 101 as storage type occupancies. IBC Table 1004.1.2 requires an occupant load factor of 200 for parking garages
7. Remoteness of exits: Where two or more exits or exit access doorways are required from any portion of the exit access, at least two of the exit doors or exit access doorways must be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between exit doors or exit access doorways.
8. Stairs Design (per theNFPA 101 7.2.2):

9.	Maximum Riser Height:	7 inches (NFPA 101 Table 7.2.2.2.1.1(a))
	Minimum Tread Length:	11 inches (NFPA 101 Table 7.2.2.2.1.1(a))
	Minimum Stair Width:	44 inches (NFPA 101 Table 7.2.2.2.1.2(B))
	Guard:	42 inches(Required where elevation change exceeds 30 inches. Design shall prevent the passage of a 4 inch Sphere.) (NFPA 101 7.2.2.4.6.2)
	Handrail:	34-38 inches (NFPA 101 7.2.2.4.5.1)
	Minimum Clearance:	6 feet 8 inches (Measured vertically from nose of tread.)
	Signage:	Required at each floor level (NFPA 101 7.2.2.5.4)
10.	Ramp Design:	per the NFPA 101 7.2.5):
	Maximum Slope:	1/12 (NFPA 101 Table 7.2.5.3(a))
	Guard:	42 inches(Required where elevation change exceeds 30 inches. Design shall prevent the passage of a 4 inch Sphere.) (NFPA 101 7.2.2.4.6.2) 4 inch curbs required for drop off edge of ramp
	Handrail:	34-38 inches (required for ramps with more than a 6 inch rise) (NFPA 101 7.2.2.4.5.1)
11.	Areas Of Refuge:	Not required in open parking garages (NFPA 101 42.8.2.2.9.2)

H. EMERGENCY ELEVATOR OPERATION

Elevator will have a Smoke detector, located in its respective lobby, on each floor level where the lobby is enclosed. A heat detector is permitted where the lobby is open to the environment. Upon activation of a lobby heat detector or machine room smoke detector, the elevators served by that lobby or machine room will be recalled to the main level of the building, one at a time. In the event that the alarm is on this designated level, the elevators will be recalled one at a time to an alternate level. It is proposed to recall only the elevator or group of elevators served by the affected lobby or elevator machine room.
After returning to the appropriate level, the elevators will stop, the doors will open, and the elevators will be rendered inoperable without the use of the fireman's key or until such time that they are manually reset to the normal operating mode. This mode of operation is provided for fire department use to allow for access to all levels served by the elevators.

I. Automatic Sprinkler System

Not required in open parking garages (NFPA 101 42.8.3.5 and NFPA 88A 6.4.4)

J. Standpipes

Class I Standpipes are **required** in open parking garages exceeding 50 feet in height PER NFPA 88A 6.5.1
This structure is 46'-2" in height, thus does not require Standpipes.

K. PORTABLE FIRE EXTINGUISHERS

1. Portable fire extinguishers will be provided throughout the garages as required by IFC section 906.1 and spaced in accordance with NFPA 10, 2013 edition. 75' Spacing

L. Fire alarm system

Not required per NFPA 101 42.8.3.4.1.2. and IBC 907.2

Revisions: | Date

VA | U.S. Department of Veterans Affairs
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BID SET

Drawing Title: CODE ANALYSIS
Project Title: PARKING STRUCTURE - LOT 7
A/E Project Number: 14.1020.02
Building Number: #152
OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER
Location: CLEMENT J ZABLOCKI VAMC
Date: 1 DEC 2015
Checked By: LL
Drawn By: EA
Drawing Number: GI101
VA Project Number: 695-325
VA | U.S. Department of Veterans Affairs

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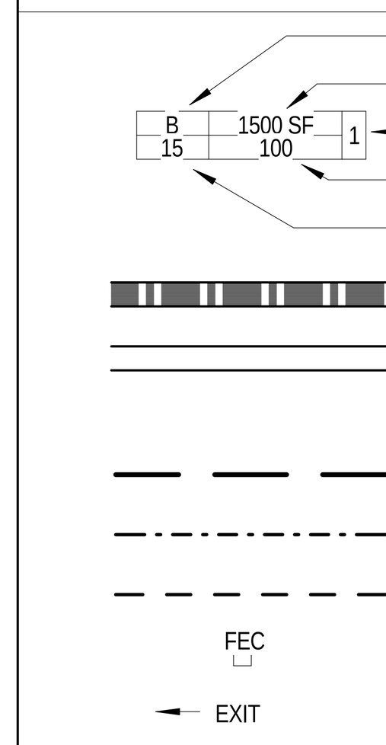
LIFE SAFETY OCCUPANCY COUNT

AREA	SF	OCC	OCC FACTOR	# OF OCC
LOWER LEVEL				
STORAGE	669 SF	S	200	4
SECURITY	148 SF	S	200	1
IT	148 SF	S	200	1
ELECTRICAL	142 SF	S	200	1
ELEV MACH	86 SF	S	200	1
LOBBY	77 SF	S	200	1
PARKING	29377 SF	S	200	147
TOTAL:	30649 SF			156
LEVEL 1				
PARKING	32919 SF	S	200	165
LOBBY	77 SF	S	200	1
TOTAL:	32996 SF			166
LEVEL 2				
PARKING	32919 SF	S	200	165
LOBBY	77 SF	S	200	1
TOTAL:	32996 SF			166
LEVEL 3				
PARKING	23222 SF	S	200	117
LOBBY	306 SF	S	200	2
TOTAL:	23528 SF			119
BUILDING TOTAL:	120169 SF			607

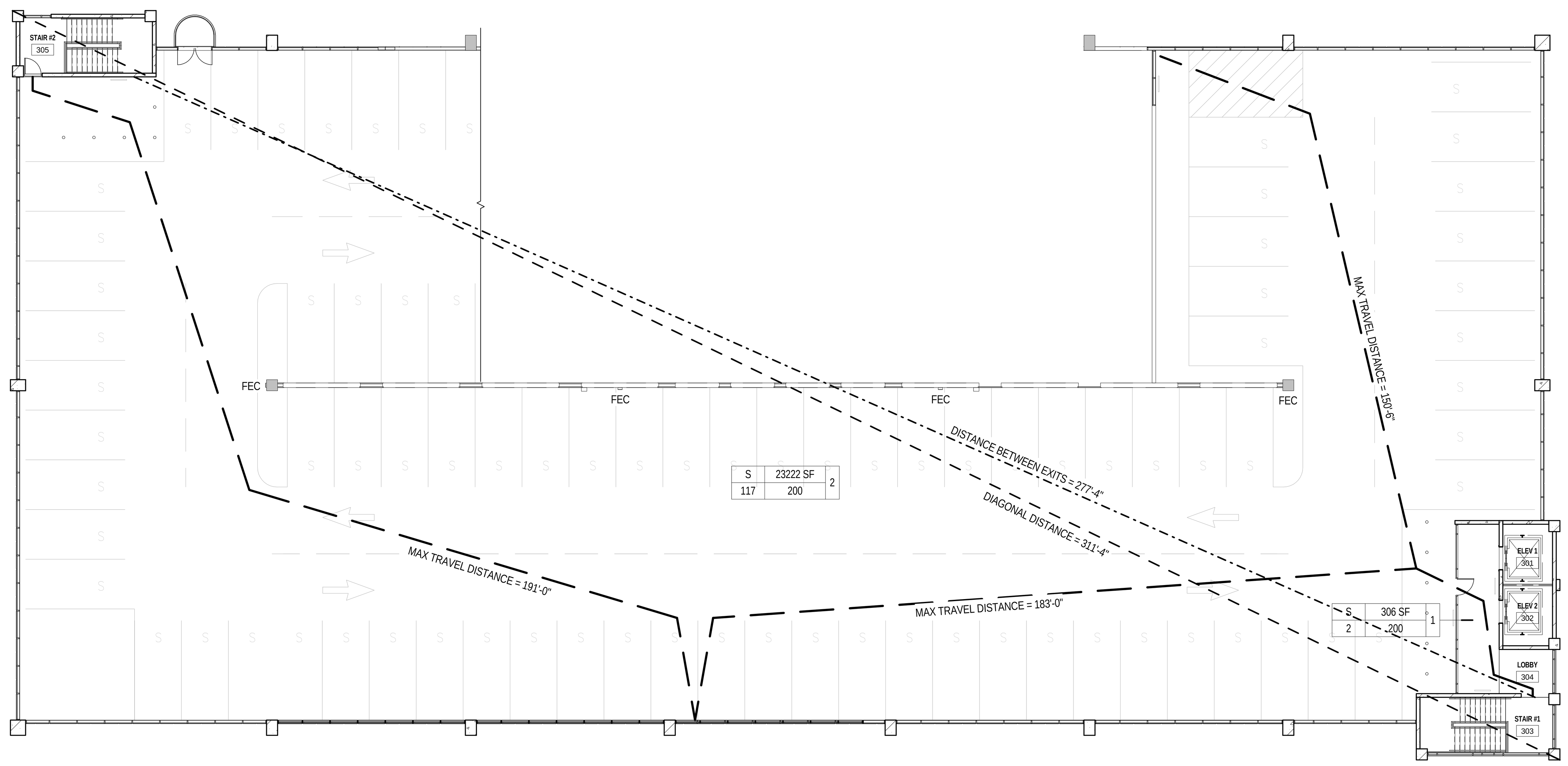
GROSS BUILDING AREA

FLOOR	SF
LOWER LEVEL	
GROSS FLOOR AREA	32338 SF
LEVEL 1	
GROSS FLOOR AREA	34353 SF
LEVEL 2	
GROSS FLOOR AREA	34353 SF
LEVEL 3	
GROSS FLOOR AREA	29089 SF
BUILDING TOTAL:	130133 SF

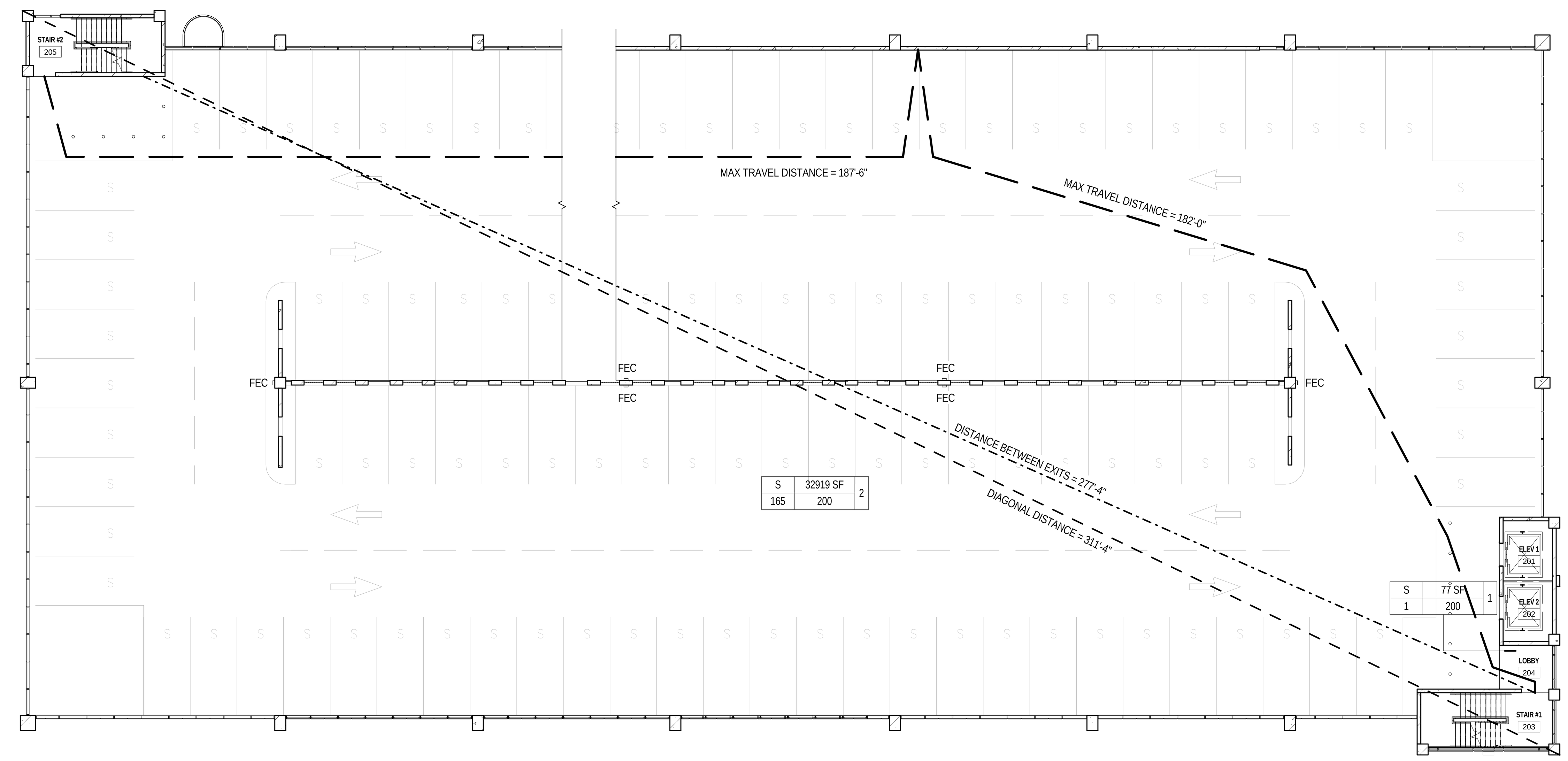
CODE ANALYSIS LEGEND



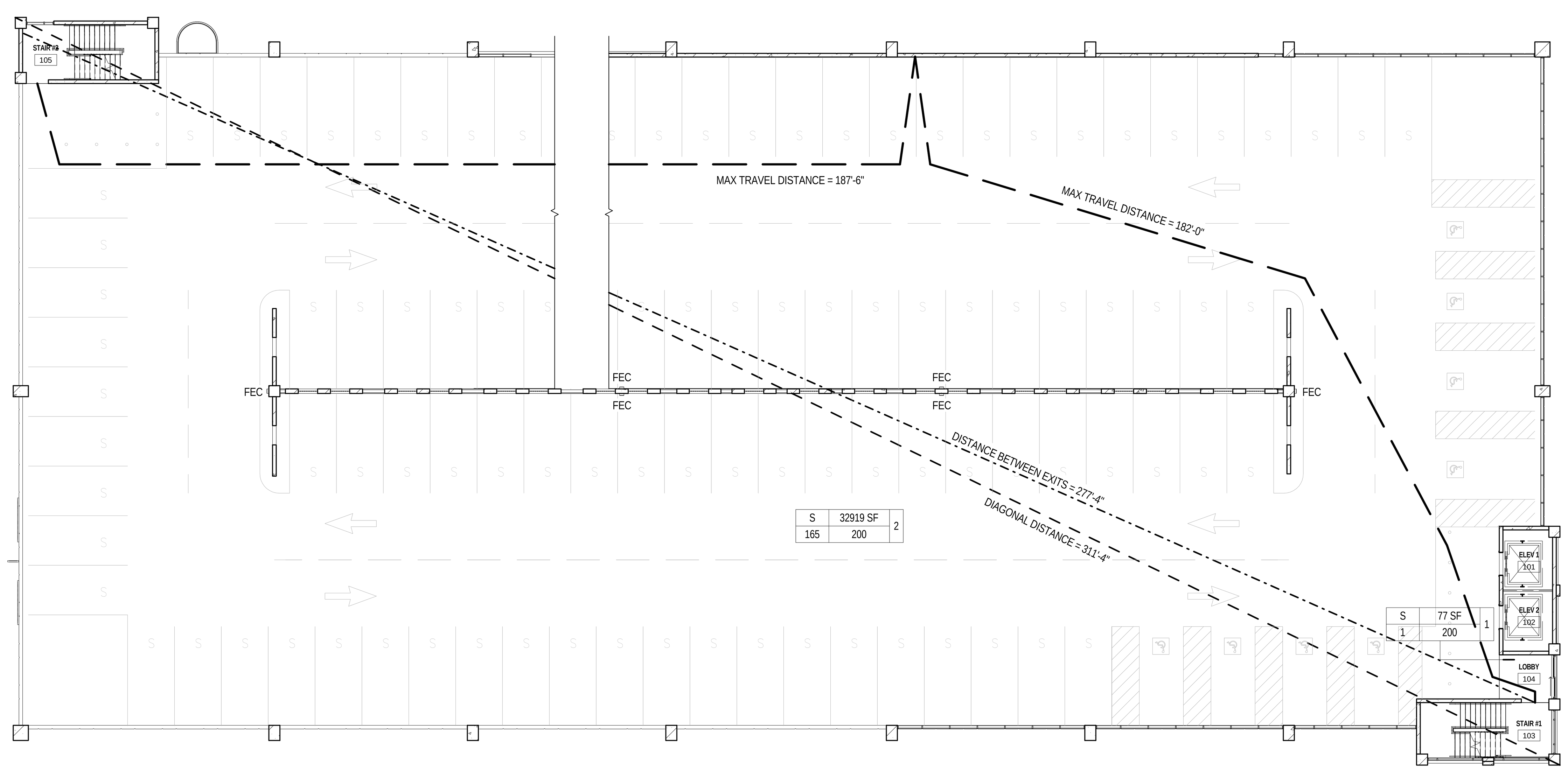
OCCUPANCY TYPE
SQUARE FOOTAGE
EXITS REQUIRED
OCCUPANCY LOAD FACTOR
TOTAL OCCUPANCY
SMOKE RESISTIVE HAZARDOUS AREA
2 HR - FIRE SEPARATION
EGRESS PATH
EXIT SEPARATION DISTANCE
DIAGONAL DISTANCE
FEC — FIRE EXTINGUISHER CABINET
EXIT — EGRESS EXIT SIGNAGE



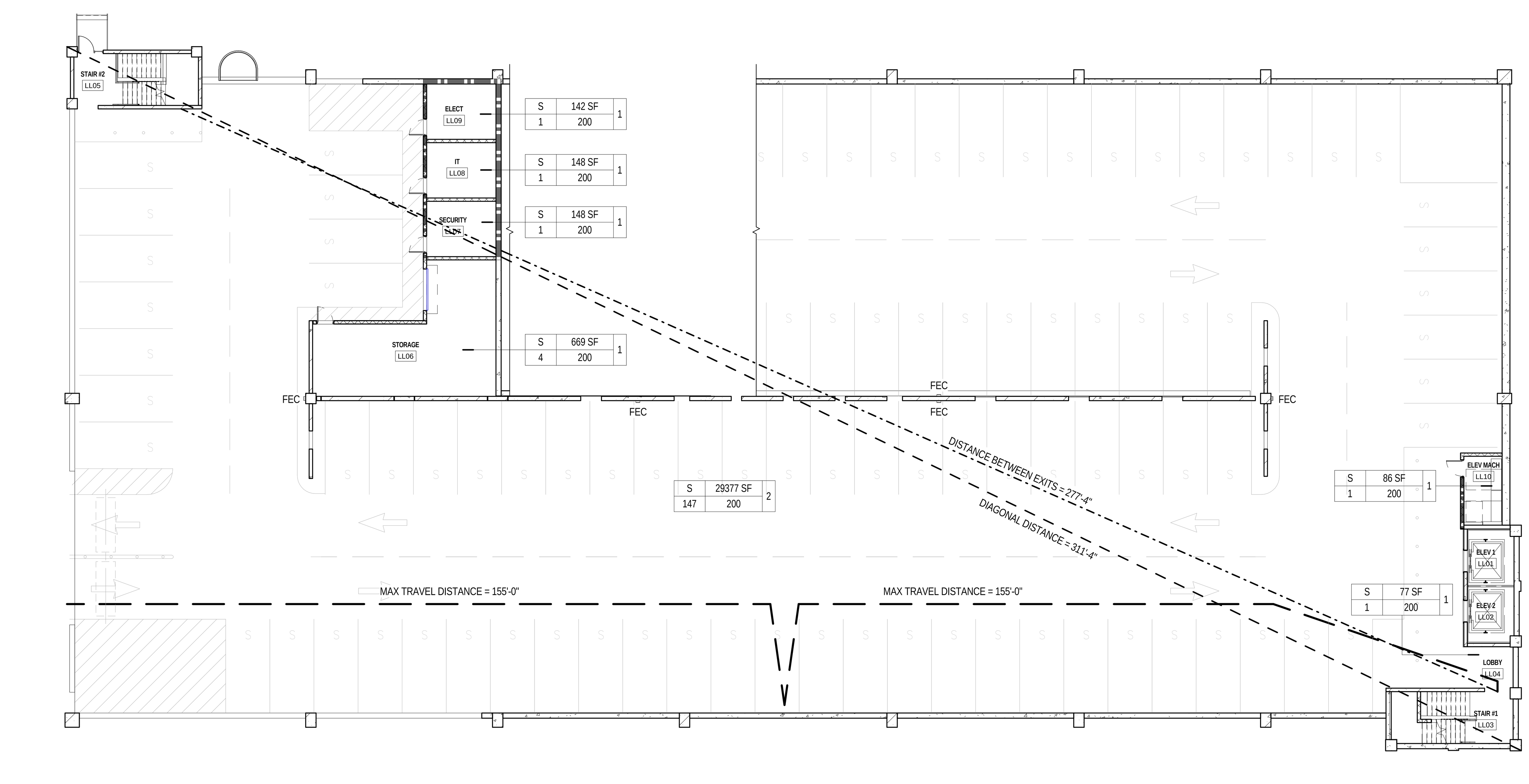
5 GI102 LEVEL 3-LIFE SAFETY PLAN
SCALE: 1/16" = 1'-0"



4 GI102 LEVEL 2-LIFE SAFETY PLAN
SCALE: 1/16" = 1'-0"



3 GI102 LEVEL 1-LIFE SAFETY PLAN
SCALE: 1/16" = 1'-0"



2 GI102 LOWER LEVEL-LIFE SAFETY PLAN
SCALE: 1/16" = 1'-0"

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Revisions:	Date

VA | U.S. Department of Veterans Affairs

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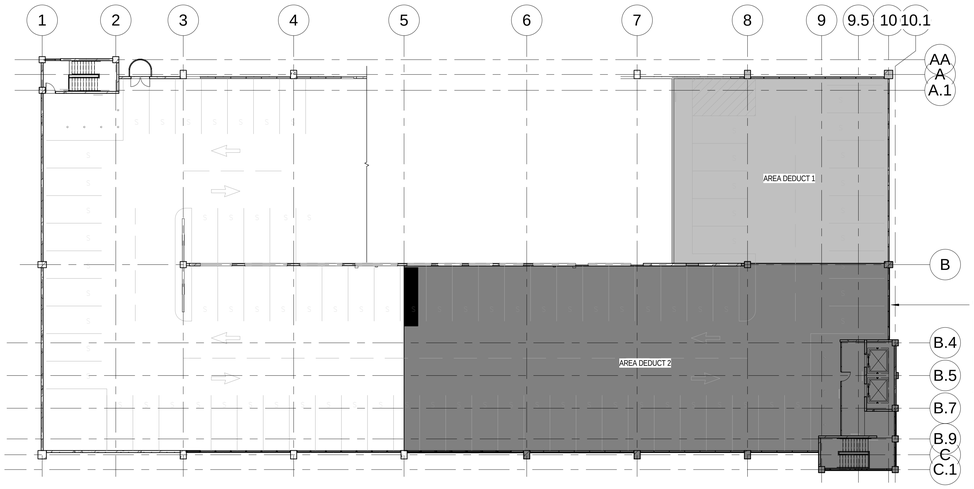
BID SET

Drawing Title: LIFE SAFETY PLAN	Project Title: PARKING STRUCTURE - LOT 7	A/E Project Number: 14.1020.02 Building Number: #152	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location: CLEMENT J ZABLOCKI VAMC Date: 1 DEC 2015 · Checked By: LL · Drawn By: EA	Drawing Number: GI102	VA Project Number: 695-325 VA U.S. Department of Veterans Affairs

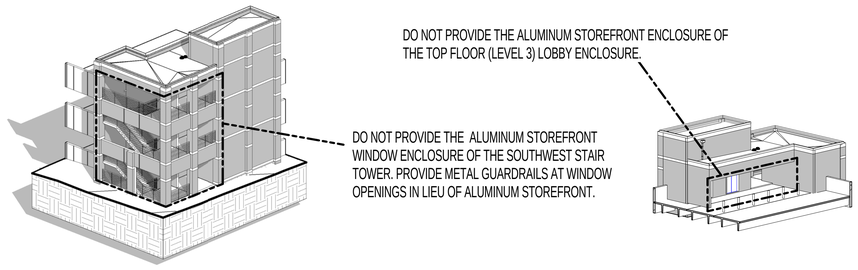
BID ALTERNATES

ALT	DESCRIPTION
1	DO NOT PROVIDE DESIGNATED FALL DETERRENT/SECURITY SCREENING AND CARD READERS AT ENTRANCES TO STAIRWELLS. REFER TO DRAWINGS ON GI103 FOR EXTENT OF FALL DETERRENT/SECURITY SCREENING TO BE REMOVED. DO NOT PROVIDE CARD READERS AT ENTRANCE TO STAIR TOWERS FOR DOORS LL05 AND 104.
2	DO NOT PROVIDE THE BRICK VENEER AT THE NORTHEAST STAIR TOWER AND THE SOUTHWEST STAIR TOWER. DO NOT PROVIDE THE ALUMINUM STOREFRONT WINDOW ENCLOSURE OF THE NORTHEAST STAIR TOWER. PROVIDE METAL GUARDRAILS AT WINDOW OPENINGS IN LIEU OF ALUMINUM STOREFRONT.
3	DO NOT PROVIDE FALL DETERRENT IN ITS ENTIRETY ON ALL LEVELS.
4	DO NOT PROVIDE AREA #1 - LEVEL 3. REFER TO DRAWINGS ON G1103 FOR EXTENT OF AREA DEDUCT.
5	DO NOT PROVIDE THE ALUMINUM STOREFRONT ENCLOSURE OF THE TOP FLOOR (LEVEL 3) LOBBY ENCLOSURE. DO NOT PROVIDE THE ALUMINUM STOREFRONT WINDOW ENCLOSURE OF THE SOUTHWEST STAIR TOWER. PROVIDE METAL GUARDRAILS AT WINDOW OPENINGS IN LIEU OF ALUMINUM STOREFRONT.
6	DO NOT PROVIDE AREA #2 - LEVEL 3. REFER TO DRAWINGS ON G1103 FOR EXTENT OF AREA DEDUCT.
7	DO NOT PROVIDE AREA #3 - LEVEL 3. REFER TO DRAWINGS ON G1104 FOR EXTENT OF AREA DEDUCT.
8	DO NOT PROVIDE AREA #4 - LEVEL 2. REFER TO DRAWINGS ON G1104 FOR EXTENT OF AREA DEDUCT. DO NOT PROVIDE SECOND ELEVATOR #2 AND ASSOCIATED EQUIPMENT.
9	DO NOT PROVIDE PTZ AND FIXED CAMERAS THROUGHOUT GARAGE. ALL INFRASTRUCTURE IS TO REMAIN IN BASE BID FOR FUTURE CONNECTIVITY.



"AREA DEDUCT 1" AND:
REDUCE LEVEL 3 FOOTPRINT AS INDICATED BY GRAY FILL. GARAGE AT THIS AREA IS REDUCED ONE TOTAL FLOOR IN HEIGHT. THIS INCLUDES REDUCING SOUTHWEST STAIR TOWER BY ONE STORY IN HEIGHT AND REDUCING ELEVATOR TOWER BY ONE STORY IN HEIGHT. END SPANDREL RELOCATED FROM AREA DEDUCT 1 AT COLUMN LINE B IS RELOCATED TO COLUMN LINE 5. PROVIDE METAL PAN EGRESS STAIR AT COLUMN LINE 5 AS INDICATED BY BLACK FILL ON PLAN FROM LEVEL 3 TO LEVEL 2

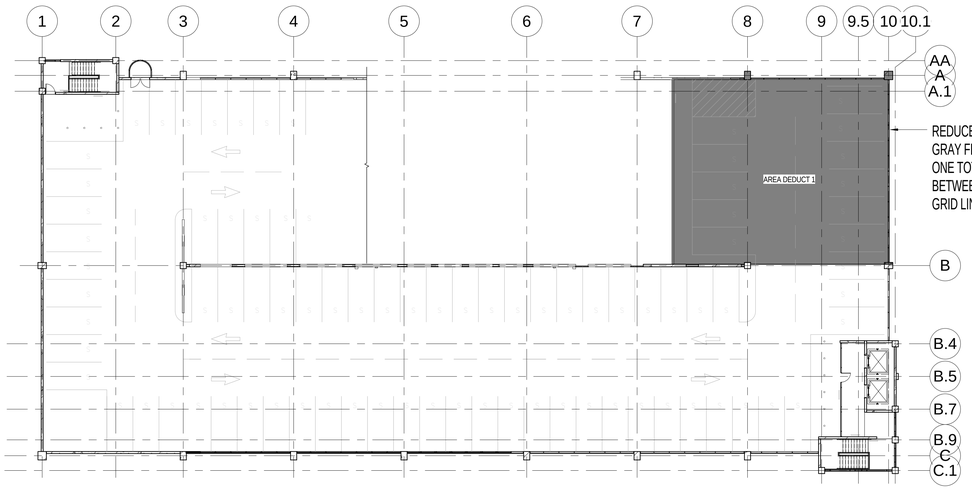
6 G1103 BID DEDUCT - 06 "AREA DEDUCT 2"
SCALE: 1" = 20'-0"



DO NOT PROVIDE THE ALUMINUM STOREFRONT ENCLOSURE OF THE TOP FLOOR (LEVEL 3) LOBBY ENCLOSURE.

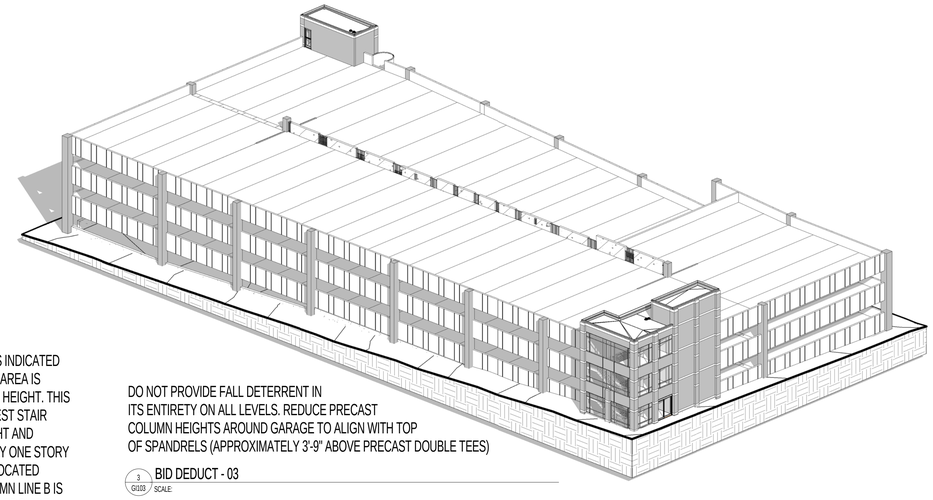
DO NOT PROVIDE THE ALUMINUM STOREFRONT WINDOW ENCLOSURE OF THE SOUTHWEST STAIR TOWER. PROVIDE METAL GUARDRAILS AT WINDOW OPENINGS IN LIEU OF ALUMINUM STOREFRONT.

5 G1103 BID DEDUCT - 05
SCALE:



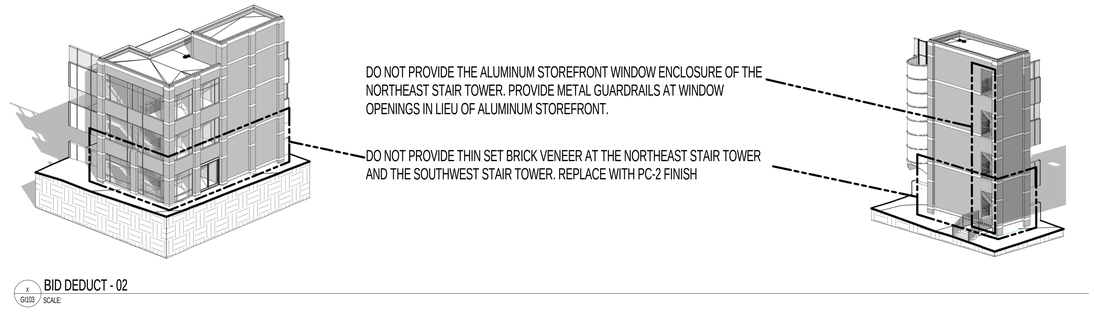
REDUCE LEVEL 3 FOOTPRINT AS INDICATED BY GRAY FILL. GARAGE AT THIS AREA IS REDUCED ONE TOTAL FLOOR IN HEIGHT. END SPANDREL BETWEEN GRIDS 7 AND 8 IS RELOCATED ALONG GRID LINE B BETWEEN GRID LINES 8 AND 10

4 G1103 BID DEDUCT - 04 "AREA DEDUCT 1"
SCALE: 1" = 20'-0"



DO NOT PROVIDE FALL DETERRENT IN ITS ENTIRETY ON ALL LEVELS. REDUCE PRECAST COLUMN HEIGHTS AROUND GARAGE TO ALIGN WITH TOP OF SPANDRELS (APPROXIMATELY 3'-9" ABOVE PRECAST DOUBLE TEES)

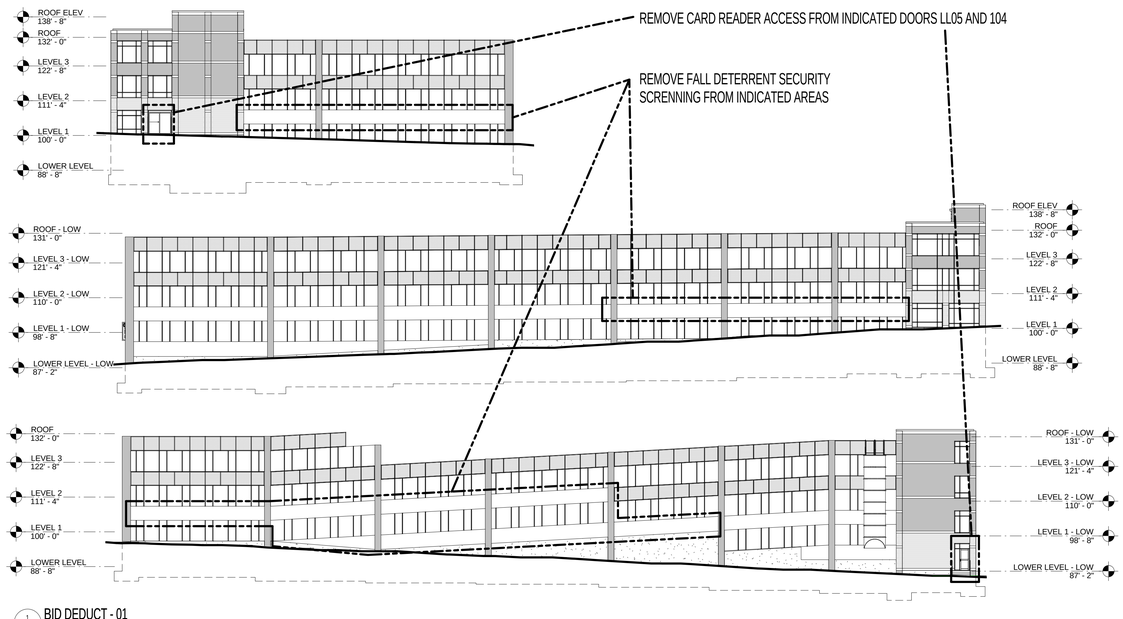
3 G1103 BID DEDUCT - 03
SCALE



DO NOT PROVIDE THE ALUMINUM STOREFRONT WINDOW ENCLOSURE OF THE NORTHEAST STAIR TOWER. PROVIDE METAL GUARDRAILS AT WINDOW OPENINGS IN LIEU OF ALUMINUM STOREFRONT.

DO NOT PROVIDE THIN SET BRICK VENEER AT THE NORTHEAST STAIR TOWER AND THE SOUTHWEST STAIR TOWER. REPLACE WITH PC-2 FINISH

2 G1103 BID DEDUCT - 02
SCALE



1 G1103 BID DEDUCT - 01
SCALE: 1" = 20'-0"

Revisions:	Date

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BID SET

Drawing Title: BID ALTERNATES	Project Title: PARKING STRUCTURE - LOT 7	A/E Project Number: 14.1020.02 Building Number: #152	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location: CLEMENT J ZABLOCKI VAMC Date: 1 DEC 2015 / Checked By: LL / Drawn By: EA	Drawing Number: GI103	VA Project Number: 695-325 U.S. Department of Veterans Affairs

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BID ALTERNATES

ALT	DESCRIPTION
1	DO NOT PROVIDE DESIGNATED FALL DETERRENT/SECURITY SCREENING AND CARD READERS AT ENTRANCES TO STAIRWELLS. REFER TO DRAWINGS ON GI103 FOR EXTENT OF FALL DETERRENT/SECURITY SCREENING TO BE REMOVED. DO NOT PROVIDE CARD READERS AT ENTRANCE TO STAIR TOWERS FOR DOORS LL05 AND 104.
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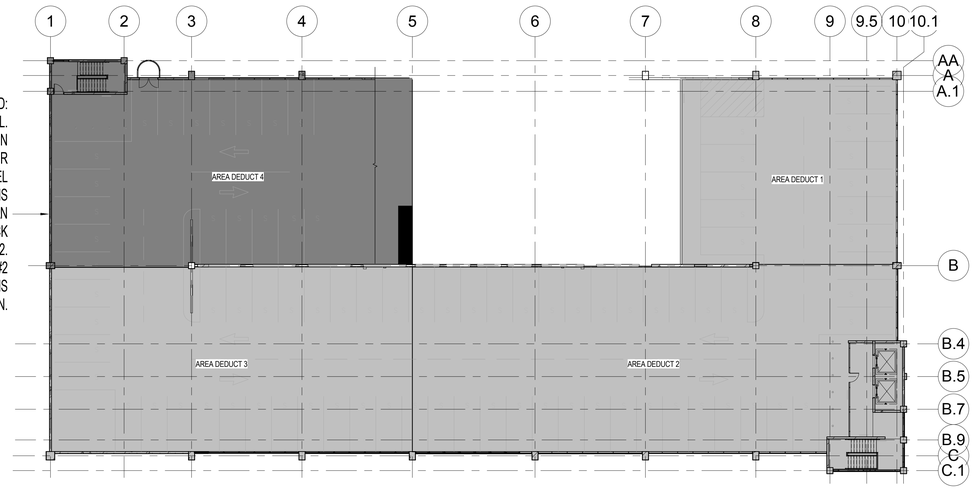
3	DO NOT PROVIDE FALL DETERRENT IN ITS ENTIRETY ON ALL LEVELS.
4	DO NOT PROVIDE AREA #1 - LEVEL 3. REFER TO DRAWINGS ON GI103 FOR EXTENT OF AREA DEDUCT.
5	DO NOT PROVIDE THE ALUMINUM STOREFRONT ENCLOSURE OF THE TOP FLOOR (LEVEL 3) LOBBY ENCLOSURE. DO NOT PROVIDE THE ALUMINUM STOREFRONT WINDOW ENCLOSURE OF THE SOUTHWEST STAIR TOWER. PROVIDE METAL GUARDRAILS AT WINDOW OPENINGS IN LIEU OF ALUMINUM STOREFRONT.
6	DO NOT PROVIDE AREA #2 - LEVEL 3. REFER TO DRAWINGS ON GI103 FOR EXTENT OF AREA DEDUCT.
7	DO NOT PROVIDE AREA #3 - LEVEL 3. REFER TO DRAWINGS ON GI104 FOR EXTENT OF AREA DEDUCT.
8	DO NOT PROVIDE AREA #4 - LEVEL 2. REFER TO DRAWINGS ON GI104 FOR EXTENT OF AREA DEDUCT. DO NOT PROVIDE SECOND ELEVATOR #2 AND ASSOCIATED EQUIPMENT.
9	DO NOT PROVIDE PTZ AND FIXED CAMERAS THROUGHOUT GARAGE. ALL INFRASTRUCTURE IS TO REMAIN IN BASE BID FOR FUTURE CONNECTIVITY.

DO NOT PROVIDE PTZ AND FIXED CAMERAS THROUGHOUT GARAGE. ALL INFRASTRUCTURE IS TO REMAIN IN BASE BID FOR FUTURE CONNECTIVITY.

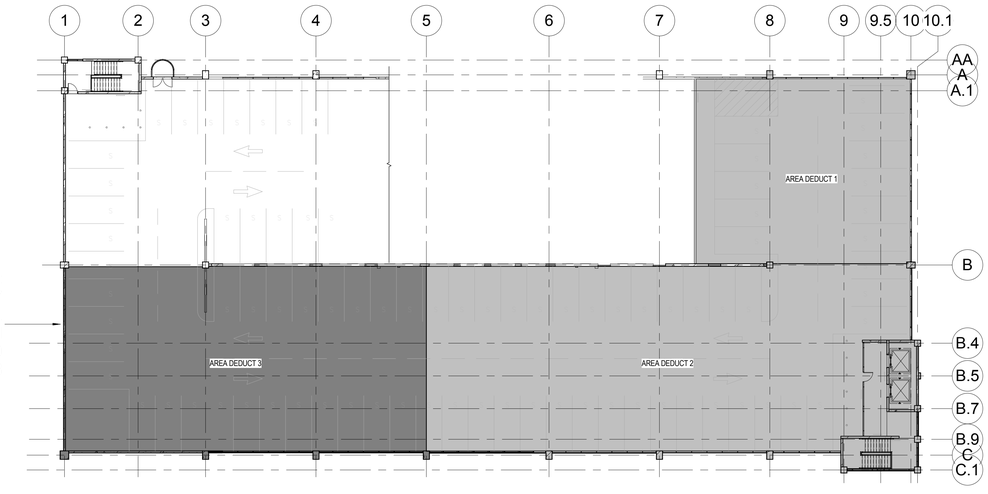
9 GI104 **BID DEDUCT-09**
SCALE: 12" = 1'-0"

"AREA DEDUCT 1", "AREA DEDUCT 2", "AREA DEDUCT 3" AND: REDUCE LEVEL 3 FOOTPRINT AS INDICATED BY GRAY FILL. GARAGE AT THIS AREA IS REDUCED ONE TOTAL FLOOR IN HEIGHT. THIS INCLUDES REDUCING NORTHEAST STAIR TOWER BY ONE STORY IN HEIGHT. END SPANDREL RELOCATED FROM AREA DEDUCT 3 AT COLUMN LINE B IS RELOCATED TO COLUMN LINE 5. PROVIDE METAL PAN EGRESS STAIR AT COLUMN LINE 5 AS INDICATED BY BLACK FILL ON PLAN FROM LEVEL 3 TO LEVEL 2. INCLUDED IN THIS DEDUCT IS ELIMINATING ELEVATOR #2 AND ALL THE ASSOCIATED EQUIPMENT. ELEVATOR SHAFT IS TO REMAIN FOR FUTURE INSTALLATION.



8 GI104 **BID DEDUCT - 08 "AREA DEDUCT 4"**
SCALE: 1" = 20'-0"

"AREA DEDUCT 1", "AREA DEDUCT 2" AND: REDUCE LEVEL 3 FOOTPRINT AS INDICATED BY GRAY FILL. GARAGE AT THIS AREA IS REDUCED ONE TOTAL FLOOR IN HEIGHT. END SPANDREL RELOCATED FROM AREA DEDUCT 2 AT COLUMN LINE 5 IS RELOCATED TO COLUMN LINE B BETWEEN COLUMNS 1 AND 3



7 GI104 **BID DEDUCT - 07 "AREA DEDUCT 3"**
SCALE: 1" = 20'-0"

Revisions:	Date

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BID SET

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Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location: CLEMENT J ZABLOCKI VAMC Date: 1 DEC 2015 / Checked By: Checker / Drawn By: Author	Drawing Number: GI104	VA Project Number: 695-325 VA | U.S. Department of Veterans Affairs

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